SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: Klimpel, Kurt
Goletz, Theresa J.
Arora, Naveen
Leppla, Stephen H.
Berzofsky, Jay A.

(ii) TITLE OF INVENTION: Targeting Antigens to the MHC Class I Processing Pathway With an Anthrax Toxin Fusion Protein

(iii) NUMBER OF SEQUENCES: 5

(iv) CORRESPONDENCE ADDRESS:
(A) ADDRESSEE: Townsend and Townsend and Crew LLP
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(C) CITY: San Francisco
(D) STATE: California
(E) COUNTRY: USA
(F) ZIP: 94111-3834

(v) COMPUTER READABLE FORM:
(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: PatentIn Release #1.0, Version #1.30

(vi) CURRENT APPLICATION DATA:
(A) APPLICATION NUMBER: US 08/937,276
(B) FILING DATE: 15-SEP-1997
(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:
(A) APPLICATION NUMBER: US 60/025,270
(B) FILING DATE: 17-SEP-1996

(viii) ATTORNEY/AGENT INFORMATION:
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(C) REFERENCE/DOCKET NUMBER: 015280-290100US

(ix) TELECOMMUNICATION INFORMATION:
(A) TELEPHONE: (415) 576-0200
(B) TELEFAX: (415) 576-0300

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 36 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA

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EL 827035141 US**

(ix) FEATURE:
  (A) NAME/KEY: -
  (B) LOCATION: 1..36
  (D) OTHER INFORMATION: /note= "primer 1"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

```
TCTAGATCTA GAAGCGGGCG GTCATGGTGA TGTAGG                                    36
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(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:
  (A) LENGTH: 37 base pairs
  (B) TYPE: nucleic acid
  (C) STRANDEDNESS: single
  (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA

(ix) FEATURE:
  (A) NAME/KEY: -
  (B) LOCATION: 1..37
  (D) OTHER INFORMATION: /note= "primer 2"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

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GATCTTTAAG TTCACGCGTG GATAGATTTA TTTCTTG                                   37
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(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:
  (A) LENGTH: 32 base pairs
  (B) TYPE: nucleic acid
  (C) STRANDEDNESS: single
  (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA

(ix) FEATURE:
  (A) NAME/KEY: -
  (B) LOCATION: 1..32
  (D) OTHER INFORMATION: /note= "primer 3"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

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GCAAGACGCG TCTGCAGATG AGAGTGAAGG AG                                        32
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(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 38 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA

(ix) FEATURE:
(A) NAME/KEY: -
(B) LOCATION: 1..38
(D) OTHER INFORMATION: /note= "primer 4"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

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ATCCGCTCGA GTCTAGATTA TCTTTTTTCT CTCTGCAC                              38
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(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 11 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS:
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

```
Arg Gly Pro Gly Arg Arg Ala Phe Asn Thr Ile
1               5                   10
```